

REMARKS

Claim Rejections – 35 USC § 102

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Hamdi U.S. Pub No 20010002902.

As per claim 1, Hamdi teaches a system that provides a user of a single analog line multiple uses of said line comprising; a modem (see fig.2a element 180) connected to a fixed logic system which multiplexes or demultiplexes data; said modem compressing a signal traveling through said analog line; said modem providing simultaneous transmission of two, or more, speech or data calls (see page 4 paragraph [0046], [0051], [0062-0067]).

Paragraphs 46 and 51 describe a multipoint DSVD conferencing system. Multiplexed audio and data from a remote DSVD modem is communicated over an analog line to a connector. Multiplexed audio and data from a separate remote DSVD modem is communicated over the analog telephone lines to a separate connector. The data received at the connectors are provided to analog or digital connectors. The digitized signal from the converter is sent to a DSP in proportion which then demodulates the signal to produce a bit string going to a controller portion. The controller portion demultiplexes the audio channel from the data channel and sends the audio channels to a speech decoder which is part of a bridge. Once the audio and data channels have been multiplexed, the bit stream goes to the DSP output sections where the signals are converted to analog streams or signals going back to the appropriate telephone lines.

Paragraph 62-67 describe a DSVD state. Paragraph 62 describes a disconnect sequence with a termination of data transmission. The DSVD device can switch an analog voice call to the down phone line and complete a normal phone connection. The system can start from a start up sequence to a simultaneous voice/data transmission. The system can transition from an analog voice state to a call cleared state. Paragraph 64 describes a disconnect frame. Paragraph 65 describes that the modem has four states: call cleared, DSVD data, DSVD and analog voice. Paragraph 66 describes the call cleared state to the DSVD data state. Paragraph 67 teaches the transition from the DSVD data to the DSVD state.

Claim 1 requires that the modem compress a signal traveling through said analog line. Hamdi does not teach compression of a signal. Hamdi teaches switching signals for conferencing purposes. Therefore, Claim 1 is not anticipated or obvious over Hamdi.

As per claim 2, Hamdi teaches wherein said modem is programmable (see page 7 paragraph [0074]).

For the reasons stated above for Claim 1, Claim 2 is not anticipated or above over Hamdi.

Applicant has added new claims 3-10. Claim 3 requires that the modem incorporate Handel-C. Hamdi does not teach or describe the incorporation of Handel-C. Therefore, Claim 3 is not anticipated or obvious over Hamdi.

Claim 4 requires that the system is reprogrammed as needed. Hamdi does not describe reprogramming the system and therefore Claim 4 is not anticipated or obvious over Hamdi.

Claim 5 requires that the modem is downloaded onto analog, cable, satellite or fiber lines. Hamdi only teaches the use of analog lines. Therefore, Claim 5 is not anticipated or obvious over Hamdi.

Claim 6 requires that simultaneous transmission of two or more speech or data calls is accomplished by compressing conventional analog voice traffic to occupy less bandwidth. Since Hamdi does not teach compressing conventional analog voice traffic, Claim 6 is not anticipated or obvious over Hamdi.

Claim 7 requires a speech compression algorithm which has a bandwidth between 5.6-6.4 kbps. Since Hamdi does not teach a speech compression algorithm nor does it teach the bandwidth taught in claim 7, Claim 7 is not anticipated or obvious over Hamdi.

Claim 8 requires that the modem further comprise field programmable gate array chips. Since Hamdi does not teach these chips, Claim 8 is not anticipated or obvious over Hamdi.

Claim 9 requires that the system is connected to a copper line by a COTS modem. Hamdi does not teach a copper line nor does it teach a COTS modem. Therefore Claim 9 is not anticipated or obvious over Hamdi.

Claim 10 requires the system comprise two modems one at each end of an analog line. A first modem compresses and multiplexes while a second

modem demultiplexes and expands. Hamdi does not teach a first and second modem having the elements described in Claim 10. Therefore, Claim 10 is not anticipated or obvious over Hamdi.

Applicant now believes that the application is in condition for allowance.

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Respectfully submitted,



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